

## **CLASS SPECIFICATION**

### **SAN DIEGO CITY CIVIL SERVICE COMMISSION**

#### **EQUIPMENT TECHNICIAN III**

##### **DEFINITION:**

Under general supervision, to perform difficult repair and maintenance work on a wide variety of complex mechanical equipment at a water or sewage treatment plant, landfill gas flare stations, or Metro Pump Stations 1 and 2; to lead or supervise a crew in the repair and maintenance of such equipment; and to perform related work.

##### **\* EXAMPLES OF DUTIES:**

- Inspects, installs, maintains, repairs, and overhauls a wide variety of complex and dissimilar mechanical equipment such as centrifugal, positive displacement, air ejector, turbine, sump, carbon, metering, and transfer pumps;
- Installs, maintains, and repairs traveling screens, chemical mixing and gear reduction units, chlorinators and similar water and sewage equipment of comparable operational difficulty;
- Calibrates landfill gas and groundwater monitoring equipment such as Organic Vapor Analyzers, Flame Ionization Detectors, pH and Electrical Conductivity meters;
- Monitors landfill generated gases, such as methane, hydrogen sulfide and sulfur dioxide, using a variety of gas analyzing instruments and makes minor adjustments to the landfill gas collection system according to general guidelines;
- Troubleshoots, diagnoses and repairs problems with changes in flow, pressure and volume on landfill gas and landfill gas collection lines;
- Diagnoses and repairs complex mechanical problems on gear and chain-driven equipment for grit chambers;
- Maintains and repairs liquid rheostats, gasoline driven carts, steam and hot water boilers, and landfill gas collection, heating and ventilation system blowers;
- Maintains and repairs gasoline driven carts, gasoline driven air compressors, generators and pumps, electric blowers, air-powered submersible and dual diaphragm pumps, steam and hot water boilers, and landfill gas collection, heating and ventilation system blowers;
- Inspects, cleans, overhauls, and installs manifold, globe, plug, gate, vacuum release, and other types of valves;
- Repairs grinders and mechanical conveyors;
- Removes, replaces, and overhauls hoists, flights, and cross collectors;
- Repairs hydraulic pumps and systems;
- Installs necessary piping systems;
- Plans, assigns, and supervises the work of subordinates engaged in repairing a variety of complex, dissimilar water, sewage and landfill gas mechanical equipment;
- Trains and rates the work performance of subordinate personnel;
- Inspects work in progress and upon completion;
- Maintains logs;
- Prepares reports and keeps records;
- As directed, applies productivity time guidelines and other required data to work repair forms;
- Drives a light truck.

##### **MINIMUM QUALIFICATIONS:**

Please note: the minimum qualifications stated below are a guide for determining the education, training, experience, special skills, and/or license which may be required for employment in the class. These are re-evaluated each time the position is opened for recruitment. Please refer to the most recent Job Announcement for updated minimum qualifications.

Three years of experience maintaining, overhauling, and repairing a variety of mechanical equipment which must include water or wastewater pumps, piping systems, speed reducers, blowers and compressors, or diesel or gasoline powered engines; or calibration and repair of chart recorders, maintaining and repairing of oxygen analyzers and various types of manometers. Successful completion of the City of San Diego's six-month Public Service Career (PSC) Equipment Technician Trainee Program, may be substituted for one year of the required experience. Possession of a valid California Class C Driver's License.

\* **EXAMPLES OF DUTIES** performed by employees in this class. The list may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.